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PTO/SB/05 (2/98)

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

Only for new nonprovisional applications under 37 CFR 1.53(b)(1)

Attorney Docket No. 05686.0004.NPUS00/35-10(17108)

First Named Inventor or Application Identifier Karunanandaa

Title Nucleic Acid Molecules and Other Molecules Associated with Sterol Synthesis and Metabolism

Express Mail Label No.

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents

**ADDRESS TO:** Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

1. ☐ \*Fee Transmittal Form (Form PTO-1082)  
(Submit an original and a duplicate for fee processing)
2. ☒ Specification [Total Pages 159]  
(preferred arrangement set forth below)
- Descriptive title of the invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R&D
  - Reference to Microfiche Appendix
  - Background of the invention
  - Brief Summary of the invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claims
  - Abstract of the Disclosure
3. ☐ Drawing(s) (35 USC 113) [Total Sheets ]
4. ☐ Oath or Declaration [Total Pages ]
- a. ☐ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 17 completed)  
[Note Box 5 below]
- i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named  
in the prior application, see 37 CFR 1.63(d)(2) and  
1.33(b).
5. ☐ Incorporation By Reference (useable if Box 4b is checked)  
The entire disclosure of the prior application, from which a copy  
of the oath or declaration is supplied under Box 4b, is considered  
as being part of the disclosure of the accompanying application  
and is hereby incorporated by reference therein.

6. ☐ Microfiche Computer Program (Appendix)
7. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
- a. ☒ Computer Readable Copy
- b. ☒ Paper Copy (identical to computer copy)
- c. ☒ Statement verifying identity of above  
copies

**ACCOMPANYING APPLICATION PARTS**

8. ☐ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(b) Statement ☐ Power of  
(when there is an assignee) Attorney
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure ☐ Copies of IDS  
Statement (IDS)/PTO-1449 Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503) (Two)  
(should be specifically itemized)
14. ☐ \*Small Entity ☐ Statement filed in  
Statement(s) prior application,  
Status still proper  
and desired
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Other:

\*NOTE FOR ITEMS 1 & 14. IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY  
FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF  
ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

**17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:**

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No. /

Prior Application Information: Examiner: Group/Art Unit:

**18. CORRESPONDENCE ADDRESS**

☒ Customer Number or Bar Code Label 22930 or ☐ Correspondence address below  
(Insert Customer No. or Attach bar code label here)

|                   |                                  |           |                                   |               |               |
|-------------------|----------------------------------|-----------|-----------------------------------|---------------|---------------|
| NAME              | David R. Marsh                   |           |                                   |               |               |
|                   | HOWREY SIMON ARNOLD & WHITE, LLP |           |                                   |               |               |
| ADDRESS           | Box No. 34                       |           |                                   |               |               |
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| CITY              | Washington                       | STATE     | DC                                | ZIP CODE      | 20004-2402    |
| COUNTRY           | US                               | TELEPHONE | 202-783-0800                      | FAX           | 202-383-7195  |
| Name (Print/Type) | David R. Marsh/June E. Cohan     |           | Registration No. (Attorney/Agent) |               | 41,408/43,741 |
| Signature         |                                  |           | Date                              | July 11, 2000 |               |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.



1299 PENNSYLVANIA AVE., NW  
WASHINGTON, DC 20004-2402  
PHONE 202.783.0800  
FAX 202.383.6610  
A LIMITED LIABILITY PARTNERSHIP

July 11, 2000

Assistant Commissioner for Patents  
Washington, D.C. 20231

Box Patent Application

Re: U.S. Non-Provisional Utility Patent Application  
Application No.: To Be Assigned  
Filed: Herewith  
For: **Nucleic Acid Molecules and Other Molecules  
Associated with Sterol Synthesis and Metabolism**  
Inventors: Balasulojini KARUNANANDAA *et al.*  
Atty. Docket: 05686.0004.NPUS00/35-21(17108)

Sir:

The following documents are forwarded herewith for appropriate action by the U.S.  
Patent and Trademark Office:

1. Utility Patent Application Transmittal (PTO/SB/05);
2. U.S. Utility Patent Application entitled:  
**Nucleic Acid Molecules and Other Molecules Associated with  
Sterol Synthesis and Metabolism**  
and naming as inventors:  
**Balasulojini KARUNANANDAA, Jaehyuk YU, and Ganesh M. KISHORE,**  
the application consisting of:
  - a. A specification containing:
    - (i) 154 pages of a description prior to the claims;
    - (ii) 3 page of claims (27 claims);
    - (iii) a one (1) page abstract; and
    - (iv) 777 pages of a sequence listing;
3. A computer-readable diskette containing the sequence listing;
4. Statement Regarding Sequence Submission; and

5. Two (2) return postcards.

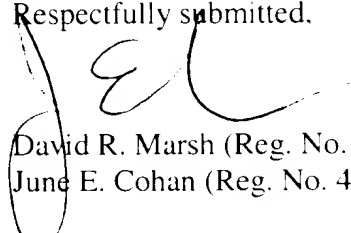
This application claims priority under 35 U.S.C §119(e) of U.S. Provisional Application No. 60/142,981, filed July 12, 1999.

This application is being filed without an executed Declaration, and without payment of official fees.

In accordance with 37 C.F.R. § 1.821(f), the paper copy of the sequence listing and the computer readable copy of the sequence listing submitted herewith in the above application are the same.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

Respectfully submitted.

  
David R. Marsh (Reg. No. 41,408)  
June E. Cohan (Reg. No. 43,741)

Enclosures

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

JC-808 U.S. PTO  
09/614221  
07/11/00

In re application of:

Balasulojini KARUNANANDAA *et al.*

Appln. No.: To Be Assigned

Filed: July 11, 2000

For: Nucleic Acid Molecules and Other  
Molecules Associated with Sterol  
Synthesis and Metabolism

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 05686.0004.NPUS00/  
35-21(17108)

**Statement Regarding Sequence Submission**

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

In accordance with 37 C.F.R. § 1.821(f), the paper copy of the Sequence Listing and the computer readable copy of the Sequence Listing submitted herewith in the above-mentioned application are the same.

Respectfully submitted,

David R. Marsh (Reg. No. 41,408)

June E. Cohan (Reg. No. 43,741)

Date: July 11, 2000

Howrey Simon Arnold & White, LLP  
Box 34  
1299 Pennsylvania Avenue, N.W.  
Washington, DC 20004-2402  
(202) 783-8000

Atty Ref. 05686 9004 NPUS00/35-21(17108)  
Date July 11, 2000

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|                                                                                                   |                          |
|---------------------------------------------------------------------------------------------------|--------------------------|
| Applicants: Balasulojini KARUNANANDAA <i>et al.</i>                                               | Art Unit: To Be Assigned |
| Serial No.: To Be Assigned                                                                        | Examiner: To Be Assigned |
| Filing Date: July 11, 2000                                                                        |                          |
| Title: Nucleic Acid Molecules and Other Molecules Associated with Sterol Synthesis and Metabolism |                          |

Assistant Commissioner for Patents  
Washington, DC 20231

*Attn: Box Patent Application*

Sir,

Please place the U.S. Patent & Trademark Office receipt stamp here to acknowledge receipt of the following:

1. Transmittal Letter to the Assistant Commissioner for Patents;
2. Utility Patent Application Transmittal (PTO/SB/05);
3. U.S. Utility Patent Application (consisting of 154 pages of description prior to the claims; 3 page of claims (27 claims); a 1 page abstract; and 777 pages of a sequence listing);
4. A computer-readable diskette containing the sequence listing;
5. Statement Regarding Sequence Submission; and
6. Two (2) return postcards.

Return file to: Kathi Moore (411A)